



MAR 07 2006

SYMIX TECHNOLOGIES, INC.  
3100 CENTRAL EXPRESSWAY  
SANTA CLARA, CA 95051  
PHONE: 408-773-4024  
FAX: 408-773-4029

**FAX TRANSMITTAL SHEET****Date:** March 7, 2006**From:** Ronald A. Krasnow  
Reg. No. 33,321**To:**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Fax No:** (571) 273-8300**Re:** 2003-012R1**Number of pages included in this fax: 13****In re Application of:** Kolosov et al.**Serial No.:** 10/804,446**Filed:** 3/19/2004**For:** Mechanical Resonator**Confirmation No.** 7278**Group Art Unit:** 2856**Examiner:** Miller, Rose  
Mary**Dear Sir:**

**Enclosed please find copies of the following documents to be filed  
regarding the above identified patent application:**

- **Transmittal (2 pages in duplicate)**
- **Power of Attorney and Correspondence Address Form (1 page)**
- **Statement Under 37 CFR 3.73(b) and Assignment (7 pages)**

**Please enter these into the file and contact us if necessary.**

**Respectfully Submitted,  
Ronald A. Krasnow  
Reg. No. 33,321**

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Docket No. 2003-012R1  
PATENT

## CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the  
Patent and Trademark Office at facsimile number (571) 273-8300 addressed to:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 7,  
2006.

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MAR 07 2006

BY:

  
Suzanne ShadleyIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kolosov et al.  
Serial No.: 10/804,446  
Filed: 3/19/2004  
For: Mechanical Resonator

Confirmation No. 7278  
Group Art Unit: 2856  
Examiner: Miller, Rose Mary

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

Transmitted herewith (check all that apply):

- |  |   |
|--|---|
| <input type="checkbox"/> Preliminary Amendment                       | <input type="checkbox"/> Supplemental Information Disclosure Statement            |
| <input type="checkbox"/> Response/Amendment                          | <input type="checkbox"/> Petition Under 37 CFR 1.97(d)(2)                         |
| <input type="checkbox"/> Response/Amendment After Final              | <input type="checkbox"/> Formal Drawings  |
| <input type="checkbox"/> Supplemental Amendment                      | <input checked="" type="checkbox"/> Statement Under 37 CFR 3.73(b) and Assignment |
| <input type="checkbox"/> Affidavits/Declarations                     | <input type="checkbox"/> Declaration Under 37 CFR 1.132                           |
| <input type="checkbox"/> Declaration and Power of Attorney           | <input type="checkbox"/> Terminal Disclaimer                                      |
| <input type="checkbox"/> Supplemental Declaration                    | <input type="checkbox"/> Small Entity Statement                                   |
| <input type="checkbox"/> Associate Power of Attorney                 | <input type="checkbox"/> Request for Refund                                       |
| <input type="checkbox"/> Change of Correspondence Address            | <input type="checkbox"/> Appeal   |
| <input checked="" type="checkbox"/> Change of Correspondence Address | <input type="checkbox"/> Petition   |
| <input type="checkbox"/> Response to Missing Parts                   | <input type="checkbox"/> Status Letter  |

to be filed in the above-identified patent application.

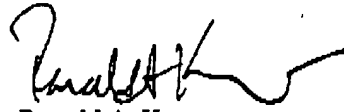
☒ No fee is required.

☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under  
37 C.F.R. § 1.16, in connection with the paper(s) transmitted herewith, or credit any overpayment of same,  
to Deposit Account No. 50-0496.

Docket No. 2003-012R1  
*PATENT*

A duplicate copy of this Transmittal Letter is transmitted herewith.

Respectfully submitted,



Ronald A. Krasnow  
Reg. No. 33,321  
Attorney for Applicant(s)

Date: 07 Mar 06


Symyx Technologies, Inc.  
3100 Central Expressway  
Santa Clara, California 95051  
Tel.: (408) 773-4024  
Fax: (408) 773-4029

Docket No. 2003-012R1

**PATENT  
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CENTRAL FAX CENTER****MAR 07 2006****CERTIFICATE OF TRANSMISSION BY FACSIMILE**

I hereby certify that this correspondence is being transmitted by facsimile to the  
Patent and Trademark Office at facsimile number (571) 273-8300 addressed to:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on march 7,  
2006

BY:

  
Suzanne Shadley**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Kolosov et al.  
Serial No.: 10/804,446  
Filed: 3/19/2004  
For: Mechanical Resonator

Confirmation No. 7278  
Group Art Unit: 2856  
Examiner: Miller, Rose Mary

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

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Transmitted herewith (check all that apply):

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|--|---|
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| <input type="checkbox"/> Response/Amendment After Final              | <input type="checkbox"/> Formal Drawings  |
| <input type="checkbox"/> Supplemental Amendment                      | <input checked="" type="checkbox"/> Statement Under 37 CFR 3.73(b) and Assignment |
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to be filed in the above-identified patent application.

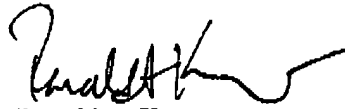
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to Deposit Account No. 50-0496.

Docket No. 2003-012R1  
*PATENT*

A duplicate copy of this Transmittal Letter is transmitted herewith.

Respectfully submitted,



Ronald A. Krasnow  
Reg. No. 33,321  
Attorney for Applicant(s)

Date: 07 Mar 06

Symyx Technologies, Inc.  
3100 Central Expressway  
Santa Clara, California 95051  
Tel.: (408) 773-4024  
Fax: (408) 773-4029

PTO/SB/61 (01-06)

Approved for use through 12/31/2008. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# **POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM**

Application Number	10/804,446
Filing Date	March 19, 2004
First Named Inventor	Oleg Kolosov
Title	Mechanical Resonator
Art Unit	2856
Examiner Name	Rose Mary Miller
Attorney Docket Number	1012-189 (2003-012R1;SMX 6016.1)

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number:

45735

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number:

OR

☒ The address associated with Customer Number:

45735

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

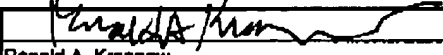
Email

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	03 Mar 06
Name	Ronald A. Krasnow	Telephone	408-764-2000
Title and Company	Senior Vice President, Intellectual Property		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒ \*Total of 2 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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SYMYX TECHNOLOGIES INC

+1 408 773 4029

P.07/13

MAR 07 2006

PTO/SB/96 (12-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Oleg Kolesov et al.

Application No./Patent No./Control No.: 10/804,446

Filed/Issue Date: March 19, 2004

Entitled: MECHANICAL RESONATOR

Symyx Technologies, Inc.

, a corporation

(Name of Assignee)

(Type of Assignee: corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 014365, Frame 0498, or a true copy of the original assignment is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:


1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

  
\_\_\_\_\_  
Signature  
Ronald A. Krasnow  
\_\_\_\_\_  
Printed or Typed Name  
Senior Vice President, Intellectual Property  
\_\_\_\_\_  
Title

03 Mar 06  
\_\_\_\_\_  
Date  
408-764-2000  
\_\_\_\_\_  
Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**SIGN  
HERE**

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 25, 2004

SYMIX TECHNOLOGIES, INC.  
PAUL A. STONE  
LEGAL DEPARTMENT  
3100 CENTRAL EXPRESSWAY  
SANTA CLARA, CA 95051**RECEIVED**  
PTAS

MAR 02 2004

Symyx Technologies  
Legal Department

\*102523360A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/08/2003

REEL/FRAME: 014365/0498  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
PADOWITZ, DAVID

DOC DATE: 07/29/2003

ASSIGNOR:  
MATSIEV, LEONID

DOC DATE: 07/30/2003

ASSIGNOR:  
KOLOSOV, OLEG

DOC DATE: 07/31/2003

ASSIGNEE:  
SYMIX TECHNOLOGIES, INC.  
3100 CENTRAL EXPRESSWAY  
LEGAL DEPARTMENT  
SANTA CLARA, CALIFORNIA 95051SERIAL NUMBER: 60456767  
PATENT NUMBER:FILING DATE: 03/21/2003  
ISSUE DATE:



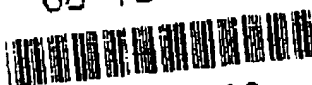
014365/0498 PAGE 2

LAZENA MARTIN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

MAR 07 2006

Attorney's Docket No. 2003-012P1  
PATENT

08-13-2003

Form PTO-1595  
(Rev. 6-83)  
OMB No. 0651-0011 (exp. 4/94)

IEET

US DEPARTMENT OF COMMERCE  
Patent and Trademark Office

102523360

To the Honorable Assistant Com.  
Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies)

Padowitz, David  
Matsiev, Leonid  
Kolosov, OlegAdditional name(s) of conveying  
party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: Symyx Technologies, Inc.  
Legal Department  
3100 Central Expressway  
Santa Clara, CA 95051Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Other☐ Change of Name

Execution Date: July 29, 2003, July 30, 2003, July 31, 2003

Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 60/456,767

B. Patent No.(s)

Filed: March 21, 2003

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence  
concerning document should be mailed:

Attorney's Name: Paul A. Stone

Name: Symyx Technologies, Inc.  
Legal Department  
3100 Central Expressway  
Santa Clara, CA 950516. Total number of applications and patents involved:  
1

7. Total fee (37 CFR 3.41): \$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 50-0496  
(Attached duplicate copy of this page if paying by deposit  
account)

## 9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of  
the original document.Paul A. Stone Reg. No. 38,628  
(Name of Person Signing)  
SignatureAug. 5, 2003  
Date

Total number of pages being submitted, including cover sheet, attachment(s), and document(s) are: 4

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignments  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450OFFICE OF PUBLIC RECORDS  
2003 AUG -8 AM 11:31  
FINANCE SECTION

08/12/2003 LMEILLER 00000215 500496 60456767

01 FC:0021

40.00 BA

Attorney Docket No.: 1012-189P1(2003-012P1)

**ASSIGNMENT OF PATENT APPLICATION****JOINT**

WHEREAS, David Padowitz residing at Mountain View, California, Leonid Matsiev residing at San Jose, California, and Oleg Kolosov residing at San Jose, California, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letter Patent

Title of Invention:                      **Mechanical Resonator**

Filing Date: 3/21/03                      Application No.: 60/456,767 and

WHEREAS, Symyx Technologies, Inc., a Delaware corporation, located at 3100 Central Expressway, Santa Clara, California 95051, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application, and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Docket No.: 1012-189P1(2003-012P1)

Page 2 of 3

Date: 7/29/2003David Padowitz  
David PadowitzSTATE OF California  
COUNTY OF Santa Clara

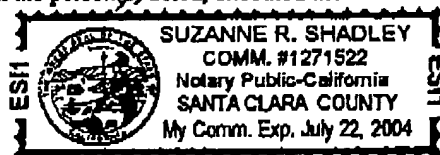
On July 29, 03, before me, Renee Lamantia, Notary Public, personally appeared David Padowitz personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Signature Renee LamantiaDate: 07.30.03Leonid Matsiev  
Leonid MatsievSTATE OF California  
COUNTY OF Santa Clara

On July 30, 2003, before me, Suzanne R. Shadley, Notary Public, personally appeared Leonid Matsiev personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Signature Suzanne R. Shadley

Docket No.: 1012-189P1(2003-012P1)

Page 3 of 3

Date:

07/31/03

Oleg Kolosov

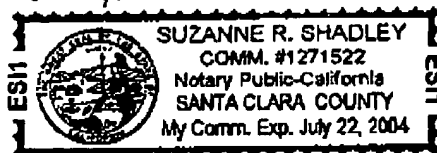
STATE OF California

COUNTY OF Santa Clara

On July 31, 2003, before me, Suzanne R. Shadley, Notary Public, personally appeared Oleg Kolosov personally known to me (~~or proved to me on the basis of satisfactory evidence~~) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Signature



(Seal)